

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. **(Currently Amended)** A computer-implemented method for use in a Web Services system having complex UDDI object(s), the method comprising:

providing a database for storing at least one directory parent object within a first object class, the at least one directory parent object including a plurality of attributes, the at least one directory parent object comprising at least one unique attribute that occurs only once in the at least one directory parent object and a repeating attribute that occurs more than once in the at least one directory parent object;

using a processor in communication with the database to create a first directory child object for storing a first value associated with the repeating attribute, the first directory child object also within the first object class;

using the processor to remove the repeating attribute from the at least one directory parent object such that the at least one directory parent object comprises only unique attributes; and

storing, in the database, the value associated with the repeating attribute in the first directory child object.

2. **(Previously Presented)** The method as recited in claim 1, further comprising using the processor to create a second directory child object for storing a second value associated with the repeating attribute, the second child object also within the first object class.

3. **(Currently Amended)** The method as recited in Claim 1, wherein the ~~the~~ **parent parent** object is at the least one of a Business Entity, Business Service, Binding Template and TModel.

4. (Currently Amended) A computer-implemented method of flattening a hierarchy in a Web Services arrangement, the method comprising:

providing a database for storing a hierarchical structure of a plurality of UDDI objects, the plurality of objects comprising at least one parent object, at least a first child object, and at least a second child object;

using a processor in communication with the database to ~~determine that a portion of a hierarchical structure or relationship in the Web Services arrangement has~~ identify a 'one-to-one' relationship between ~~first and second objects~~ the first child object and the second child object; and

using the processor to remove ~~the portion~~ a portion of the hierarchical structure ~~or relationship determined to have~~ having the 'one-to-one' relationship by moving a content of the ~~second-first child~~ object into ~~a-third~~ the second child object, ~~each of the second and third objects comprising a child object of the first object.~~

5. (Currently Amended) A computer recording medium including computer executable code for performing a Web Services method for use in a Web Services arrangement having complex UDDI object(s), comprising;

code for providing a database for storing at least one directory parent object within a first object class, the at least one directory parent object including a plurality of attributes, the at least one directory parent object comprising at least one unique attribute that occurs only once in the at least one directory parent object and a repeating attribute that occurs more than once in the at least one directory parent object;

code for creating a first directory child object for storing a first value associated with the repeating attribute, the first child object also within the first object class;

code for removing the repeating attribute from the at least one directory parent object such that the at least one directory parent object comprises only unique attributes; and

code for storing the value associated with the repeating attribute in the first directory child object, the first directory child object also within the first object class.

6. **(Previously Presented)** The computer recording medium as recited in claim 5, further comprising code for using the processor to create a second directory child object for storing a second value associated with the repeating attribute, the second child object also within the first object class.

7. **(Currently Amended)** The computer recording medium as recited in claim 5, where in the ~~the parent~~ parent object is at least one of a Business Entity, Business Service, Binding Template and TModel.

8. **(Currently Amended)** A computer recording medium including computer executable code for flattening a hierarchy in a Web Services arrangement, comprising:

code for storing a hierarchical structure of a plurality of UDDI objects in a database, the plurality of objects comprising at least one parent object, at least a first child object, and at least a second child object;

code for ~~determining that a portion of a hierarcheical~~ the hierarchical structure ~~or relationship in the Web Services arrangement has~~ identifying a 'one-to-one' relationship between ~~first and second objects~~ the first child object and the second child object; and

code for removing ~~the portion~~ a portion of the hierarchical structure ~~or relationship determined to have~~ having the 'one-to-one' relationship by moving a content of the ~~second first child~~ object into ~~a third~~ the second child object, ~~each of the second and third objects comprising a child object of the first object.~~

9. **(Previously Presented)** The computer recording medium as recited in Claim 8, wherein the first object is at the least one of a Business Entity, Business Service, Binding Template and TModel.

10. **(Currently Amended)** The computer recording medium as recited in Claim 8, wherein the ~~second~~ first child object is a relationship object.

11. **(Currently Amended)** The method as recited in Claim 4, wherein the ~~first~~ parent object is at the least one of a Business Entity, Business Service, Binding Template and TModel.

12. **(Currently Amended)** The method as recited in Claim 4, wherein the **second first child** object is a relationship object.

13. **(Previously Presented)** The method as recited in Claim 1, further comprising creating a searchable index of the first value associated with the repeating attribute.

14. **(Previously Presented)** The method as recited in Claim 1, further comprising storing at least one unique attribute in the directory parent object.

15. **(Previously Presented)** The method as recited in Claim 14, wherein the directory parent object comprises a Business Entity object and the at least one unique attribute comprises a business key.

16. **(Previously Presented)** The method as recited in Claim 15, wherein the first directory child object is selected from the group consisting of name, description, contact, discovery URL, Keyed References, and Business Services.

17. **(Previously Presented)** The computer recording medium as recited in Claim 5, further comprising creating a searchable index of the first value associated with the repeating attribute.

18. **(Previously Presented)** The computer recording medium as recited in Claim 5, further comprising storing at least one unique attribute in the directory parent object.

19. **(Previously Presented)** The computer recording medium as recited in Claim 17, wherein the directory parent object comprises a Business Entity object and the at least one unique attribute comprises a business key.

20. **(Previously Presented)** The computer recording medium as recited in Claim 18, wherein the first directory child object is selected from the group consisting of name, description, contact, discovery URL, Keyed References, and Business Services.